

## SUPERREGENERATIVE RECEIVER USING A THERMOSTAT FOR TEMPERATURE STABILIZATION

### ABSTRACT OF THE DISCLOSURE

An RF controlled thermostat/controller is disclosed for an HVAC system having a superregenerative RF receiver which uses the temperature sensor of the thermostat for temperature stabilization of the superregenerative RF receiver. The superregenerative RF receiver provides a very low power drain always-on receiver for RF remote control of the thermostat/controller. The thermostat/controller includes a microcontroller with a non-volatile memory. A digital value stored in the non-volatile memory, or a non-volatile memory of a separate component, is used in one of several different embodiments to accurately tune the superregenerative RF receiver.